## Gulf Oil Exploration and Production Company

C. D. Borland
PRODUCTION MANAGER, HOBBS AREA

July 26, 1978 DHC 4 253

P. O. Box 670 Hobbs, NM 88240

JUL 27 1978

CONCENDED CO

Re: H. T. Mattern (NCT-C) No. 7,

Section 18-21S-37E; H. T. Mattern

(NCT-C) No. 9, Section 7-21S-37E;

H. T. Mattern (NCT-C) No. 11, Section 8-21S-37E; Lea County,

New Mexico

Request for Approval to Downhole Commingle the Blinebry and

Drinkard Pools

Mr. Joe D. Ramey Energy and Minerals Department Oil Conservation Division P. O. Box 2088 Santa Fe, NM 87501

Dear Sir:

# 7 in both for la # 11 odg to Blindry # 9 odg to both

Your administrative approval is requested for an exception to Rule 303-A to permit downhole commingling of production in the subject well from the Blinebry and Drinkard Pools (commingled in surface storage by Administrative Order PC-517, dated 9-8-75). Production from the same two pools is presently being commingled downhole in Gulf's H. T. Mattern (NCT-C) Wells No. 5 and 8 per Order No. R-5274, dated August 31, 1976. There is no evidence of fluid incompatibility, and we do not expect any reservoir damage due to downhole commingling in the wellbore. Ownership of the two pools in each of the subject wells is common and correlative rights will not be violated.

Currently, Wells No. 7, 9 and 11 each utilize a single pumping unit installation producing from the Drinkard pool. Upon approval to downhole commingle, we will isolate the Drinkard and perforate and stimulate the Blinebry zone. The Blinebry will then be tested separately. At that time, Gulf will submit to the District Supervisor of the Energy and Minerals Department of the Oil Conservation Division, separate stabilized well tests from the Blinebry pool for computing an allocation formula as provided under the guidelines of Order No. R-5274.

We propose to tube the wells to the Drinkard zone and utilize equipment on the Drinkard in each of the wells to lift the fluids from the commingled zone. Based upon offsets on the H. T. Mattern (NCT-C) Lease, it is our expectation that produced fluids from the Blinebry zone



in Wells No. 7, 9 and 11 will need to be artificially lifted. Upon approval of this application and in the event that the Blinebry does not require artificial lift, Gulf will postpone downhole commingling until such a time both zones require artificial lift and the total daily production from both zones, before commingling, does not exceed 40 barrels per day.

Additional information concerning this application as outlined in Rule 303-C is attached for your consideration.

Yours very truly,

C. D. BORLAND

Attachments LBI/dch

cc: Energy and Minerals Department Oil Conservation Division P. O. Box 1980 Hobbs, NM 88240

> Continental Oil Company P. O. Box 460 Hobbs, NM 88240

Campbell & Hendrick P. O. Box 401 Midland, TX 79701

Texaco Inc. P. O. Box 728 Hobbs, NM 88240

Sohio Petroleum Company P. O. Box 3000 Midland, TX 79701

Getty Oil Company P. O. Box 249 Hobbs, NM 88240

Apco Oil Company P. O. Box 1027 Odessa, TX 79760

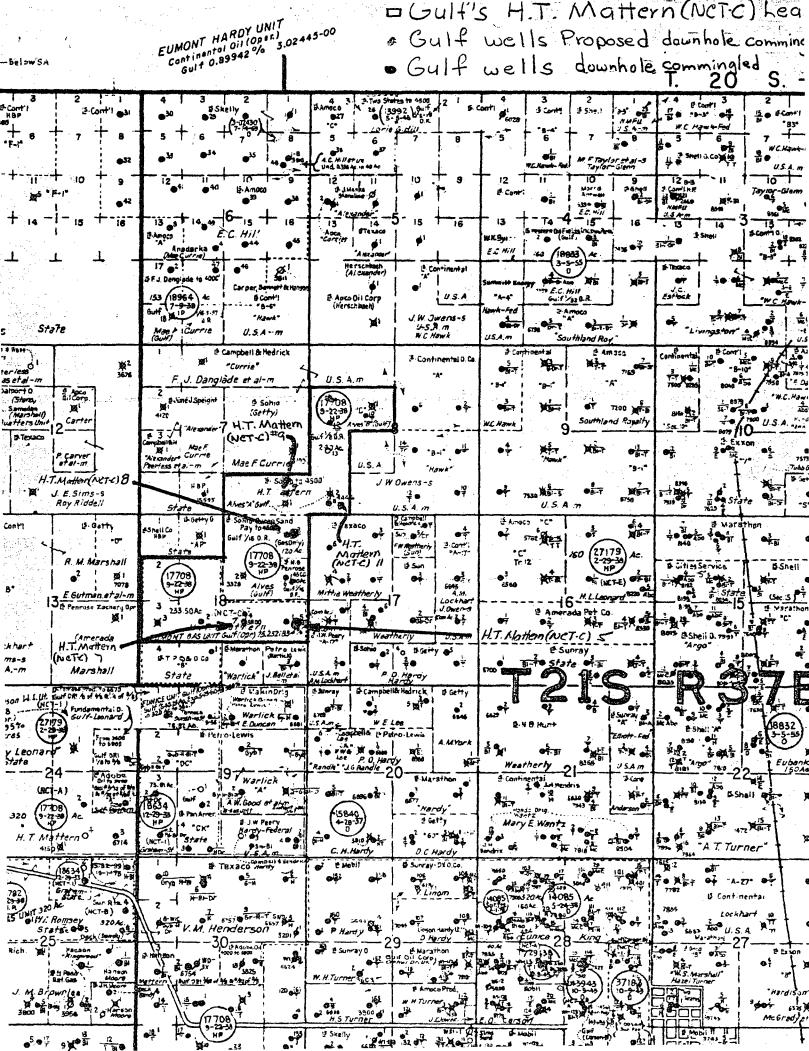
Sun Oil Company P. O. Box 1205 Hobbs, NM 88240 Marathon Oil Company P. O. Box 2409 Hobbs, NM 88240

Petro-Lewis Corporation P. O. Box 509 Levelland, TX 79336

Shell 0il Company P. 0. Box 1509 Midland, TX 79701

Texas Pacific Oil Company P. O. Box 4067 Midland, TX 79701

Amerada Hess Corporation P. O. Box 840 Seminole, TX 79360



## H. T. MATTERN (NCT-C) NO. 7

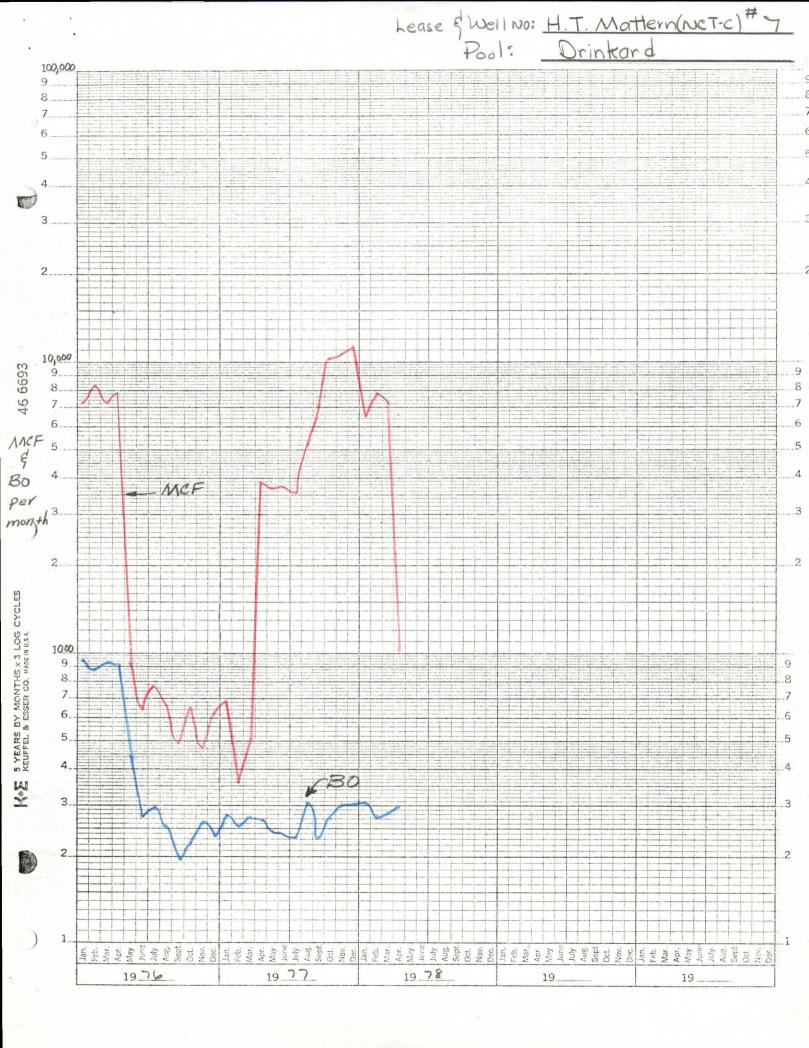
- (1) Gulf Oil Corporation P. O. Box 670 Hobbs, NM 88240
- (2) Lease and Well No.: H. T. Mattern (NCT-C) No. 7
  Unit J, 2130'FSL & 1980'FEL
  Section 18-215-37E, Lea County, New Mexico
- (3) Well History: Well No. 7 was drilled to a total depth of 6785' with 5-1/2" OD production casing set at 6773'. Current PBTD is 6732'. On October 3, 1975 the 5-1/2" casing was perforated w/4 1/2" JHPF in the Drinkard interval 6520-6707'. The drinkard was then treated with 3000 gal 15% NE HCL inhibited HCL and frac treated with 60,000 gal 9.2#/gal gelled brine and 1 2# 20-40 SPG. Well was equipped to pump on October 15, 1975 and potentialed for 52 BOPD and 90 BWPD. The Drinkard was again stimulated on February 4, 1977 with 1000 gal 15% NE HCL inhibited HCL.
- (4) Decline Curves: Drinkard Oil (Attached)
- (5) Bottom Hole Pressure Data:

Blinebry: Datum -2400 Pressure @ Datum 675 psi\* Drinkard: Datum -2975 Pressure @ Datum 850 psi\*

\*Estimates based on most recent available BHP data within vicinity of well and fluid level test.

- (6) Fluid Characteristics: Blinebry and Drinkard are presently being commingled downhole in Gulf's H. T. Mattern (NCT-C) Wells No. 5 and 8, Order No. R-5274, dated August 31, 1976. There has been no evidence of fluid incompatibility.
- (7) Value of Commingled Fluids: Blinebry and Drinkard production are presently being surface commingled on this lease per Administrative Order PC-517, dated September 8, 1975. Since production is already being commingled on the surface, downhole commingling will not affect the price.
- (8) Current Production Tests: See attached C-116.
- (9) All offset Operators have been notified by a copy of this application.

Continental Oil Company, P. O. Box 460, Hobbs, NM 88240
Campbell & Hendrick, P.O. Box 401, Midland, TX 79701
Texaco Inc. P. O. Box 728, Hobbs, NM 88240
Sohio Petroleum Company, P. O. Box 3000, Midland, TX 79701
Getty Oil Company, P. O. Box 249, Hobbs, NM 88240
Apco Oil Company, P.O. Box 1027, Odessa, TX 79760
Sun Oil Company, P. O. Box 1205, Hobbs, NM 88240
Amerada Hess Corporation, P.O. Box 840, Seminole, TX 79360
Marathon Oil Company, P. O. Box 2409, Hobbs, NM 88240
Petro-Lewis Corporation, P. O. Box 509, Levelland, TX 79336
Shell Oil Company, P. O. Box 1509, Midland, TX 79702
Texas Pacific Oil Company, P.O. Box 4067, Midland, TX 79701



## NEW MEXICO OIL CONSERVATION COMMISSION GAS-OIL RATIO TESTS

C-116
Privised 1-1-65

Gulf Oil Corporation	88240				Drinkard		GY)	TYPE OF	 S <sub>C</sub>	Scheduled	1 1	Lea	Completion [		Special X
	WELL		٢٥٥	LOCATION	~	DATEOF	VS	CHOKM	TBG.	פאורא	HENCTH	יני	PROD. DURING	ğ	RING TEST
rease Name	z o	С	5	4	20	TEST	STAT	\$12E	70	ALLOW-	TEST	WATER BBLS.	פאאע.		3188 011
H. T. Mattern (NCT-C)	7	ر. ر	18	21	37	7-10-78	P	2"w/o	25	10	24	15	38.9	1	5

No well will be assigned an ellowable greater than the amount of oil produced on the official test.

During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned. increased allewables when authorized by the Commission.

WIII be 0.60. Gas volumes must be reported in MCF measured at a pressure base of 15.025 psia and a temporature of 60° F. Specific gravity base

Report casing pressure in ileu of tubing pressure for any well producing through casing,

Kell original and one copy of this report to the district office of the New Mexico Oil Conservation Commission in accordance with Rule 301 and appropriate pool rules.

I hereby certify that the above information is true and complete to the best of my knowledge and belief.

(Signature)

Well Tester
July 26, 1978 (7744)

Lease H.T. Mattern (NCT-C) Well No		•	
Location 2130 FSL\$ 1980 FEL Sec18-215	-37 Ecounty Le	a st	ate NM
CLE: 3502			_
KDB: 3514.2	Tritial Comp	Date: 10	- 24-25
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	Froductus Form	action: Ur	
			•
	Zone	Comp. Date	Date Aband
	6520-6707	10-20-75	
	•		
1 85	_ Treatment Hist	orva (Curren	t Zonel
8 8 "OD 24 # Grade K-53	(10-3-75) Sport	200 gal 15% HC	Lauross.
Set @ 1295' W/ 500 sx	cs Derts 6520-6	707. Straddle	each set
		700gal 15% HCL	
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	1-2#20-00 SP	gal 9:2#gel by G in frac (Pc	07 52 80, 908L
	(2-4-77) Dum	o I pooall a	O-Ork
	P. Co. ORD 200	w After 10BC	(784)
2 2 3 4.70 EUE BRd 5-55+bg	52 tore 700, a08	10 177 4CT 700C	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
2 4.70 EUE BRG 3 3 4 1 9 7			
#5556-58 P			
=5356-58 Proposed =5594-96 Blinebry	<u> </u>		
\$ 5648-50 perforations	•		*
\$ 5683-85			
\$ 5733-35			
\$ 5770 - 7Z7 8	Producing Hist	ory:	•
= 5848 - 50	Formation:		•
Baker Mod. B' Thg. Anchor	Month or Year	Oil W	tr Gas
Se+@ 6453w/9,000#-T SN@ 6578'			
R = 9 4' perf sub@ 6579'			
1j+23/8 BP0B BTM Tlog 6613			
2000			
	Last Test Date	4. 7 10	0
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\$6554-56 DRK.	BODD	BWPD	19
100 + 6586-88 4-1 JHPF	FL:	Calc. Ppg	. Eff:
\$ 665658 P			
= 6673-75	Cum. Oil 12 S	587 BBLCum	. GasiŠ⊃881 M
= 6691-93		Secretaria de la compansión de la compan	
‡ 67°5-07 <i>)</i>			
	73 2 %		
52"00 15.50# Grade K-S5	Remarks and Re-	commendation:	
PBTD 6732 Set @ 6773 ' W/ 650 SXS			·
TO 6785 Cont w/ 300 sx ehe + 16%			
Gel + 2% NACL +-2% CFR	2		
Tailed in w/ 350 SX Ch H +	-		
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<u>~ ₹₹ ₹₹ ₹</u>	· · · · · · · · · · · · · · · · · · ·		
	Prepared	d By: PR	an hoe
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## OIL CONSERVATION COMMISSION Hobbs DISTRICT

OIL CONSERVATION COMMISSION	DATE	July	27,	1978
BOX 2088	TO TO .	D	MC	
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I have examined the applicat	ion dated			
	(NOT C) #7 1 1	0 01 27 #	(O D	7 03 07 #11
for the Gulf Oil Corp. H. T. Mat	tern (NCI-C) #/-J I	8-21-3/, #	9-1	$\frac{7-21-37}{S-T-R}$ 8-21
Operator	Lease and Well No.	- Ur	iit,	S-T-R 8-21
and my recommendations are as fol	lows.			
and my recommendations are as for	.iows.			
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